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FRESH MARKET STAKE AND CAGE TOMATO TRIALS 1980

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and Monica Wertz

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FRESH MARKET STAKE AND CAGE TOMATO TRIALS 1980

John W. Scott, Gerald G. Myers, and Monica Wertz¹

This is another report of a continuing series designed to evaluate currently used and new cultivars of tomatoes.

Stake Trial. Ten cultivars were grown with 3 replications and 40 others were grown in non-replicated observation plots. Spacing was 48 inches between rows and 18 inches between plants within rows. There were 15 plants per single row plot, equivalent to 7,260 plants per acre. Plants were pruned to 2 stems by allowing the first lateral below the first flower cluster to develop. All other laterals were removed to the sixth flower cluster.

Cage Trial. Thirty-two cultivars were grown on a black plastic mulch in non-replicated observation plots. There were 10 plants per plot spaced 60 inches between rows and 30 inches between plants within rows. This is the equivalent of 3,485 plants per acre. After planting, wire cages 30 inches high and 15 inches in diameter were placed over the plants. No pruning or training practices were carried out.

Cultural Practices. Seed was sown on April 4, 1980. Seedlings were transplanted to 2 1/4" cell packs on April 15 and field set on May 29. One thousand pounds per acre 15-15-15 were plowed down on April 23. At field planting, each plant received 1/2 pint of 10-52-8 starter solution at 3 lb. per 50 gal. Fifty lb/A 33.5-0-0, was sidedressed on June 20. Recommended rates of Enide and Vegiben were applied at planting and on June 20 respectively, for weed control. Irrigation was applied at a rate of 1" per week as needed.

Weather Data. Columbus University Farm Weather Station

<u>Month</u>	<u>Mean Temperatures (°F)</u>			<u>Precipitation</u>	
	<u>Max.</u>	<u>Min.</u>	<u>Avg.</u>	<u>Rain(inches)</u>	<u>Deviation from Normal</u>
May 29-31	84.0	60.0	72.0	0.73	----
June	79.4	54.6	67.0	5.90	+1.95
July	84.7	63.4	74.0	5.63	+1.20
August	84.5	67.2	75.9	6.26	+3.40
September	78.6	57.9	68.3	1.86	-0.55

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S-444/1/81-200

<u>Code</u>	<u>Seed Source</u>
A-1	Agway, Inc., Vegetable Seed Farm, Prospect, PA 16052
A-2	Asgrow Seed Co., Kalamazoo, Michigan 49003
B-1	George J. Ball, Inc., West Chicago, ILL 60185
B-2	W. Atlee Burpee Co., Philadelphia, PA 19132
C-1	A. L. Castle, Inc., P.O. Box 877, Morgan Hill, CA 95037
F-1	Ferry-Morse Seed Co., San Juan Bautista, CA 95045
G-1	Goldsmith Seeds, Inc., Gilroy, CA 95020
H-1	Joseph Harris Co., Rochester, N.Y. 14624
L-1	Lethermans Seed Co., Canton, OH 44707
N-1	Niagara, FMC Corp., Modesto, CA 95618
N-2	Northrup King & Co., P.O. Box 959, Minneapolis, MN 55440
O-1	Ohio State University, 2001 Fyffe Court, Columbus, OH 43210
P-1	Park Seed Wholesale, Inc., Greenwood, S.C. 29646
P-2	Peto Seed Co., Inc., Box 4206, Saticoy, CA 93003
S-1	Stokes Seeds, Inc., 737 Main St., Box 548, Buffalo, NY 14240
T-1	Otis S. Twilley Seed Co., Inc., P.O. Box 65, Trevoise, PA 19047
V-1	Vaughan-Jacklin Corp., Downer's Grove, ILL 60515

Results and Discussion

Stake Trials. The first harvest was made on July 24 and the last on Sept. 18. Generally, yields were lower this year than last year due in part to weed competition and early blight both of which were worse than usual this year. Yield results of the replicated trial are in Table 1. There were a few rows in the stake trials which had poor growth that caused a lot of variation between replications for several varieties. This limited statistically significant differences between varieties and results should be interpreted with caution, since some varieties may have been hurt by the location of 1 of its replications.

Monte Carlo had good early yield, the best total yield (of replicated varieties), relatively good number 1 yield, and good fruit size. Supersonic B had good overall yield, the best number 1 yield, and good fruit size. Traveler, a pink fruited variety, had a good yield of number 1 fruit but fruit size was somewhat low.

As with the replicated trial, the observation trial results (Table 2) should be interpreted with some caution. Some varieties may have been in a poor location which would lower their performance. However varieties which performed well may have potential for Ohio and similar areas. Yields of some observation varieties were greater than the best yields in the replicated trial. From a yield standpoint the most promising varieties include: PSX 121375, PSR 25277, GS 244, GS 431, Park's Whopper VFNT, Basket Vee, and Ohio 6WRP. If tobacco mosaic virus (TMV) is a problem, growers might consider 6WRP or Park's Whopper. Limited seed of Ohio 6WRP will be available in 1981 for grower trials.

Cage Trial. The first harvest was on Aug. 1 and the last was on Sept. 18. Results are given in Table 3. The best yielding varieties include Pik Red, GS 238, GS 475 and Sunripe VFN.

Disease Resistance and Fruit Quality. All the varieties tested in both stake and cage trials were rated for various fruit defects and internal appearance. These results plus disease resistances are in Table 4. It is

suggested that the reader should note varieties of interest from a yield standpoint and then check Table 4 to see what disease resistance and quality ratings the varieties have. The varieties in Table 4 are listed in the same order as they appear in Tables 1 to 3. If a grower wants to test a new variety, it is suggested that a small amount be tested the first year to assess its performance under his conditions.

Table 1. Replicated Stake Trial: Yield, Grade, and Fruit Size of Tomato Cultivars, Columbus, Ohio 1980

Cultivar*	Seed Source	Early Harvest to August 6					Total Harvest to September 18				
		Marketable Yield		Percent		Fruit Size (oz.)	Marketable Yield		Percent		Fruit Size (oz.)
		(Tons/Acre)		by Weight			(Tons/Acre)		by Weight		
		No. 1	Total	No. 1	Culls		No. 1	Total	No. 1	Culls	
Early Girl	B-1	2.28	4.33	31	17	3.10	5.09	19.33	20	14	2.79
Monte Carlo	P-2	1.78	2.58	47	32	4.36	9.48	26.74	30	16	5.19
Floramerica	P-2	1.14	1.29	33	62	5.45	6.35	19.10	25	25	5.71
Jet Star	H-1	0.95	2.47	36	14	4.22	8.97	19.30	41	11	4.22
Better Boy VFN	B-1	0.71	1.10	92	47	4.81	7.15	19.80	30	14	5.02
Super Red	A-1	0.58	0.95	19	55	4.88	6.69	19.23	31	13	5.23
Supersonic B	H-1	0.40	1.14	21	39	3.98	11.34	20.63	46	14	5.11
Traveler	L-1	0.19	0.32	44	21	4.64	10.64	17.12	57	9	3.92
Burpee's Big Girl	B-2	0.15	0.57	15	51	7.95	7.95	19.66	33	10	5.66
Ramapo	V-1	0.00	0.12	0	77	2.00	9.07	16.87	47	13	5.67
LSD (5%)		N.S.	4.08			2.36	NS	NS			1.07

*Cultivars ranked in decreasing order of early yield of U.S. No. 1 grade fruits. Data based on mean of 3 replications.

Table 2. Observation Stake Trial: Yield, Grade and Fruit Size of Tomato Cultivars, Columbus, Ohio 1980

Cultivar*	Seed Source	Early Harvest to August 6					Total Harvest to September 18, 1980				
		Marketable Yield		Percent		Fruit size (oz.)	Marketable Yield		Percent		Fruit size (oz.)
		(Tons/Acre)		by Weight			(Tons/Acre)		by Weight		
		No. 1	Total	No. 1	Culls		No. 1	Culls	No. 1	Culls	
PSX 121375	P-2	5.30	6.32	66	21	5.42	26.38	34.07	68	12	5.81
PSR 25277	P-2	5.03	5.52	64	30	5.61	23.06	27.61	65	22	5.63
Better Girl	N-2	4.94	5.35	65	30	6.20	15.92	27.27	52	11	5.72
Park's Extra											
Early	P-1	3.39	5.23	56	14	3.84	11.51	30.25	35	8	3.53
Castlehy 105	C-1	2.47	2.57	83	17	6.80	14.30	23.11	53	14	5.31
XP 726	A-2	2.35	2.35	52	46	6.21	8.69	20.47	30	30	6.10
W2HF	H-1	2.32	2.78	72	14	4.49	14.76	23.64	60	4	4.54
Quinte											
(Easy Peel)	S-1	2.20	2.93	68	9	3.80	10.16	19.36	47	10	3.32
Basket Vee	S-1	2.15	2.95	56	24	3.98	19.67	28.80	60	13	4.61
GS 431	G-1	2.15	2.42	49	45	6.15	16.41	27.25	51	15	6.62
Earlirouge	S-1	2.06	2.98	46	33	3.71	7.31	15.49	34	28	3.39
XP 2041	A-2	1.82	3.94	32	32	5.43	7.02	15.05	36	22	4.85
Early Cascade	P-2	1.81	8.37	20	8	2.53	8.01	35.74	21	8	2.90
Castlex 1051	C-1	1.77	2.40	61	18	4.95	11.45	18.67	56	9	4.39
Super Fantas-											
tic VFN	B-1	1.62	2.54	29	54	3.91	9.58	28.51	27	20	5.69
GS 244	G-1	1.55	2.13	41	44	4.69	19.21	33.06	50	15	5.99
Duke	P-2	1.50	1.86	46	42	3.73	15.68	22.09	51	28	5.00
Exp. 4101	N-2	1.40	1.84	43	44	3.80	13.75	23.33	52	12	4.99
Roadside Red	A-1	1.16	1.60	36	50	4.40	7.96	18.97	36	14	4.59
Park's Whopper											
VFNT	P-1	1.16	1.38	40	52	3.38	13.84	31.31	37	16	6.33
Ultra Boy VFN	S-1	1.14	1.52	42	44	3.73	14.57	24.47	51	14	4.57
NCX 3050	N-1	1.09	1.33	49	40	5.87	6.82	11.47	47	22	5.58
XPH 674	A-2	.94	1.23	31	60	4.53	16.87	25.77	56	14	5.03
Ultra Girl VFN	S-1	.63	1.04	18	70	3.28	14.76	25.36	45	23	4.20
Ohio 10WRP-10	O-1	.58	1.11	36	31	2.73	4.62	13.70	29	13	2.30
NCX 3027	N-1	.58	.77	31	59	7.31	8.49	14.71	47	18	5.76
GS 430	G-1	.56	.56	51	49	.38	13.02	25.92	41	18	5.81
Ohio 6WRP	O-1	.48	.65	31	59	3.32	16.04	28.73	50	11	5.60
Easy Peel	P-1	.44	1.98	17	23	2.68	4.50	12.53	23	37	2.78
Pole King Hyb.	T-1	.39	.44	50	44	3.60	13.96	17.86	70	12	2.71
Tropic	A-2	.34	.44	23	71	4.11	8.20	20.42	32	21	6.02
City Best VF	P-1	.29	2.40	8	37	2.01	.63	3.03	13	38	1.71

(Observation Stake Trial)

- Pg. 2 - cont.

Cultivar*	Seed Source	Early Harvest to August 6					Total Harvest to September 18, 1980				
		Marketable Yield		Percent		Fruit size (oz.)	Marketable Yield		Percent		Fruit size (oz.)
		(Tons/Acre)		by Weight			(Tons/Acre)		by Weight		
		No. 1	Total	No. 1	Culls		No. 1	Culls	No. 1	Culls	
S-368	S-1	.19	.51	36	5	2.80	3.12	14.06	19	16	3.19
Ohio 9WRP	O-1	.17	.41	25	40	3.40	16.04	21.63	68	8	4.23
Walter	A-2	.17	.41	7	83	5.44	5.32	16.53	21	35	5.36
S-359	S-1	.10	.27	13	65	1.96	3.17	14.08	16	44	3.09
Ohio 10WRP-5	O-1	.10	.24	8	80	2.00	14.68	21.01	59	16	3.20
XPH 596	A-2	--	1.79	0	13	1.85	2.73	12.73	13	25	2.57
S-361	S-1	--	.02	--	96	1.60	6.00	14.64	29	29	4.61
8T2	B-2	--	--	0	100	--	3.78	15.80	17	29	10.55

*Cultivars ranked in decreasing order of early yield of U.S. No. 1 grade fruits.

Table 3. Observation Cage Trial: Yield, Grade and Fruit Size of Tomato Cultivars, Columbus, Ohio 1980

Cultivar*	Seed Source	Early Harvest to August 12					Total Harvest to September 18, 1980				
		Marketable Yield		Percent		Fruit size (oz.)	Marketable Yield		Percent		Fruit size (oz.)
		(Tons/Acre)		by Weight			(Tons/Acre)		by Weight		
		No. 1	Total	No. 1	Culls		No. 1	Total	No. 1	Culls	
Pik Red	H-1	8.30	12.00	64	7	6.98	14.32	22.79	58	7	6.14
GS 475	G-1	2.73	4.49	57	6	5.97	13.75	22.34	55	11	6.12
Veebright VF	S-1	2.53	4.02	56	11	3.96	13.75	19.82	59	15	3.92
GS 238	G-1	2.10	3.25	55	15	5.66	15.16	23.34	60	7	6.06
Jackpot	F-1	1.91	3.71	46	11	4.74	8.78	16.06	51	8	4.44
GS 589	G-1	1.84	3.15	40	31	7.97	14.50	20.34	63	11	6.15
Spring Giant Hyb.	B-2	1.74	2.89	49	18	5.56	6.27	10.96	46	20	4.12
Jetfire VF	S-1	1.61	6.06	24	10	5.67	5.79	13.97	31	25	5.18
GS 592	G-1	1.59	2.49	56	11	5.27	8.01	12.61	55	14	4.62
Market Hybrid #45	F-1	1.56	2.53	51	17	6.66	8.68	14.21	52	16	6.30
Setmore	H-1	1.54	3.40	44	2	5.04	10.63	24.76	40	6	4.95
Blazer	N-1	1.49	2.32	62	3	5.65	9.35	16.40	54	5	5.60
Sunripe VFN	B-1	1.25	3.48	36	3	5.76	15.16	27.34	48	13	5.19
Ottawa 78	S-1	1.22	1.59	72	7	2.53	7.90	16.65	42	12	3.73
Freedom VF	T-1	1.15	1.64	66	7	5.15	14.37	21.46	60	10	5.94
Ohio 3039-1	O-1	1.04	2.26	41	10	5.11	6.51	12.15	42	22	4.17
Market Hybrid #46	F-1	.99	1.97	40	21	5.19	9.08	24.40	32	14	6.27
Mainpak	H-1	.92	2.10	40	10	6.93	3.88	9.26	36	15	5.80
Veepick VF	S-1	.84	1.50	56	--	3.87	11.73	15.13	67	13	2.85
Hybrid 980	A-1	.74	1.86	32	21	4.36	8.29	21.30	33	14	3.93
Starshot	S-1	.68	2.00	25	28	1.80	1.41	5.65	18	27	2.08
Tempo	A-2	.57	1.34	42	2	4.80	4.50	10.55	35	17	4.95
Market Hybrid #53	F-1	.57	1.16	45	9	6.54	11.18	17.34	55	15	4.79
Ohio 3033-1	O-1	.56	.81	49	29	4.0	8.44	16.42	41	21	3.68
Swift	S-1	.46	1.95	17	29	1.80	.52	2.54	13	35	1.82
NCX 3050	N-1	.46	1.41	25	25	5.21	5.10	12.31	31	25	5.28
Market Hybrid #52	F-1	.37	1.34	27	35	6.40	5.22	12.36	37	13	5.08
Ohio 3108-1	O-1	.36	.87	52	22	2.95	11.98	17.58	63	8	4.20

(Cage Trial)
- Pg. 2 - cont.

Cultivar*	Seed Source	Early Harvest to August 12					Total Harvest to September 18, 1980				
		Marketable Yield (Tons/Acre)		Percent by Weight		Fruit size (oz.)	Marketable Yield (Tons/Acre)		Percent by Weight		Fruit size Oz.)
		No. 1	Total	No. 1	Culls		No. 1	Yield	No. 1	Culls	
Ohio 3042-1 Burpees VF	O-1	.32	.75	55	20	2.95	3.72	8.44	44	15	3.11
Tomato Hyb.	B-2	.28	.46	50	20	2.96	9.77	17.21	48	15	3.97
Ohio 3059-3	O-1	.26	.57	29	37	2.83	8.39	16.02	42	20	3.74
Walter	A-2	.06	.53	12	0	5.29	11.49	18.04	50	21	4.41

*Cultivars ranked in decreasing order of early yield of U.S. No. 1 grade fruits.

Table 4. Fruit Disease Resistance¹ and Quality² Ratings for Cultivars Tested in All Trials

Cultivar ³	Disease Resis- tance	Persis- tent Green Shoulder ⁴	Concen- tric Cracking	Radial Cracking	Catface or Stylar Scar	Zippering	Blotchy or Uneven Ripening	Core Size	Internal Appearance ⁵
<u>Replicated Stake:</u>									
Early Girl		5	5	5	5	5	5	2.5	3
Monte Carlo	F ₁ NV	4	4.5	4	4	4.5	4.5	3	3.5
Floramerica	F ₁ +2V	5	5	5	5	5	4	2.5	2.5
Jet Star	F ₁ V		5	4.5	4	5	4.5	4	3.5
Better Boy VFN	F ₁ NV	3	4.5	4.5	5	5	4	3	4
Super Red	F ₁ V	5	3.5	3.5	5	5	4	3.5	4
Supersonic B		5	4.5	4.5	4	5	5	5	4
Traveler		5	5	4	5	5	5	3	4
Burpee's Big Bird	F ₁ V	5	3.5	4	4	5	4	3	4
Ramapo	F ₁ V	5	5	4.5	5	5	5	5	4
<u>Observation Stake:</u>									
PSX 121375	F ₁ +2NTV	5	5	4	4	5	3	4	3.5
PSR 25277	F ₁ +2NTV	5	5	4.5	5	5	3.5	5	3
Better Girl	F ₁ NV	5	5	3.5	5	5	4	4	4
Park's Extra Early	F ₁ V	4	5	5	4.5	5	4.5	4	3
Castlehy 105	F ₁ +2SV	4	4	5	5	5	5	3	3.5
XP 726	A ₁ F ₁ SV ₁	4	4	4	5	5	4.5	5	3.5
W2HF		4	5	4	5	5	5	3.5	2.5
Quinte (Easy Peel)			5	4	5	5	4	4	3
Basket Vee	F ₁ V		5	5	5	5	3	3	2.5
GS 431	A ₁ F ₁ T	4	5	4	5	5	5	4	4
Earlirouge	V		5	5	5	5	3	3.5	2
XP 2041	CF ₁ +2S	5	5	4.5	4	5	3	3.5	2.5
Early Cascade	F ₁ V	4	5	5	5	5	4.5	4	3
Castlex 1051	F ₁ +2NSV		5	5	5	4	5	4	3
Super Fantastic VFN	F ₁ NV	5	3	2	4	5	3.5	5	5
GS 244	A ₁ F ₁ NTV	4	4	4	5	4	5	5	4
Duke	F ₁ +2V	4	5	4	5	5	5	4	4
Exp. 4101	A ₂ E ² (tolerance to both)	5	5	4	4	4	5	4	3.5
Roadside Red	F ₁ V	5	5	5	4	5	5	3	3.5
Park's Whopper VFNT	F ₁ NTV	4	4	3	5	5	5	3	3
Ultra Boy VFN	F ₁ NV		5	5	5	5	4.5	4	4

Disease Resistance and Quality
- Pg. 2 - cont.

Cultivar ³	Disease Resis- tance	Persis- tent Green Shoulder ⁴	Concen- tric Cracking	Radial Cracking	Catface or Stylar Scar	Zippering	Blotchy or Uneven Ripening	Core Size	Internal Appearance ⁵
Observation Stake: (cont.)									
NCX 3050	F ₁ NV		4	4	5	5	4.5	4	4
XPH 674	A ₁ F ₁ +2SV	4	4	3	5	5	4	3	2.5
Ultra Girl VFN	F ₁ NV		3	4	3	5	5	4	4
Ohio 10WRP-10	F ₁ T		4	5	5	5	5	3	2.5
NCX 3027	F ₁ +2V	5	5	5	5	5	4	2.5	2
GS 430	A ₁ F ₁ NTV	5	4	4.5	5	5	5	3.5	3
Ohio 6WRP	F ₁ T		5	4	5	4	5	4	4
Easy Peel			4	5	5	5	3.5	3	2.5
Pole King Hyb.	F ₁ +2V	5	5	3.5	5	5	5	4	4
Tropic	F ₁ SV	4	5	4.5	4	5	5	4	4
City Best VF	F ₁ V	Patio Tomato - No quality data taken.							
S-368	(NONE)	2	4	5	5	5	5	3	2.5
Ohio 9WRP	F ₁ T		4.5	4	5	5	5	4	4
Walter	CF ₁ +2S	5	4.5	5	4	5	5	3	3
S-359	(NONE)	2	3.5	5	5	5	4	3	3
Ohio 10WRP-5	F ₁ T		4.5	5	5	4	5	3.5	3.5
XPH-596	AN	4	5	5	5	5	4	4	2.5
S-361	(NONE)	4	3	4.5	5	5	5	4	3.5
8T2	F ₁ V	5	5	3.5	3	5	4	2.5	3
Pik Red	F ₁ +2V	4	4.5	3.5	5	5	5	4	4
GS 475	A ₁ F ₁ +2V	5	4	3	5	5	5	4	5
Veebright VF	F ₁ V		4	4.5	5	5	5	5	4
GS 238	F ₁ NV	5	5	2.5	5	5	4	4	5
Jackpot	F ₁ +2NV		5	3	5	5	3	3.5	3.5
GS 589	F ₁ NV	4	4.5	4	5	5	4	4	3.5
Spring Giant Hyb.	F ₁ V	5	4	4	5	5	4	3.5	3.5
Jetfire VF	F ₁ V		4	5	4.5	5	3.5	4	3
GS 592	F ₁ V	5	5	5	5	5	4	4	5
Market Hyb. #45	F ₁ +2V		4	1	5	5	4	3	3
Setmore		5	4	3	5	5	4.5	4	4
Blazer	F ₁ +2V (tolerant to S)		4.5	3.5	5	5	4.5	4	3.5
Sunripe VFN	F ₁ NV	5	5	3.5	5	5	4	4	4
Ottawa 78	V		5	4.5	5	5	4.5	3.5	3
Freedom VF	F ₁ V		5	3.5	5	5	4.5	3.5	4
Ohio 3039-1	F ₁ T		4	3.5	5	4.5	5	3.5	3

Disease Resistance and Quality

- Pg. 3 - cont.

Cultivar ³	Disease Resis- tance	Persis- tent Green Shoulder ⁴	Concen- tric Cracking	Radial Cracking	Catface or Stylar Scar	Zippering	Blotchy or Uneven Ripening	Core Size	Internal Appearance ⁵
Observation Stake: (cont.)									
Market Hyb. #46	F ₁ + ₂ V		3.5	1	5	5	5	2.5	3
Mainpak		5	5	2	5	5	4	5	5
Veepick VF	F ₁ V		5	5	5	5	3	2	2.5
Hybrid 980	F ₁ V	5	3	3.5	5	5	5	4	4
Starshot	V		5	4	5	4	5	2	2
Tempo		5	4	3	5	5	5	4	4
Market Hyb. #53	F ₁ V		4	4.5	5	5	4.5	4	3.5
Ohio 3033-1	F ₁ T		5	4.5	5	4	4	4	4
Swift	(NONE)		5	3	5	5	5	4	3
NCX 3050	F ₁ NV		4.5	3	5	4	4	3	3
Market Hyb. #52	F ₁ + ₂ V		4	3	5	5	3.5	3.5	4
Ohio 3108-1	F ₁ T		5	4	5	5	4.5	5	4
Ohio 3042-1	F ₁ T		5	4.5	5	3.5	5	3.5	3.5
Burpee's VF Tomato									
Hyb.	F ₁ V	5	5	4	5	5	5	4	4
Ohio 3059-3	F ₁ T		3	4.5	5	5	4.5	3.5	3.5
Walter	CF ₁ + ₂ S	5	5	4.5	5	4	4.5	4	4

¹Disease Resistance Codes: A₁ = Alternaria Stem Canker, A₂ = Anthracnosa (tolerance), C = Cladosporinum Leaf Mold, E = Early Blight (tolerance), F₁ = Fusarium Wilt (race 1), F₂ = Fusarium Wilt (race 2), N = Root Knot Nematode, S = Stemphyllium, T = TMV, V = Verticillium

²Quality Ratings for all variables were made on a 1 to 5 scale where 5 indicates no problem and 1 is a severe problem.

³Cultivars are in the order they appear in Table 1 to 3.

⁴No rating means the cultivar has the uniform ripening gene (no dark green shoulder).

⁵Internal appearance is based on internal color, and wall thickness.

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